|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table S1. Design of sgRNAs | |  |  |  | |  | |  | |
| sgRNAs | | Target genes | | | | | Positions of sgRNAs on target genes | | | |
| Name | Sequence (5'→ 3') | Gene name | Accession # | Gene sequence (5'→ 3')\* | | Target score (%) |
| sgRNA\_pro13a | AACGTAGCTGGTTGCCAGAA**GGG** | *Pro13a.1* | Os07g0206400 | AACGTAGCTGGTTGCCAGAA**GGG** | | 100.0 | | A black and white rectangle with a white stripe  Description automatically generated | | | |
|  |  | *Pro13a.2* | Os07g0206500 | AACGTAGCTGGTTGCCAGAA**GGG** | | 100.0 | |  | | | |
| sgRNA\_pro13b | AAACGCAGCTGATTGCAAGA**AGG** | *Pro13b.1* | Os07g0219250 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | | A black and white rectangular object with text  Description automatically generated | | | |
|  |  | *Pro13b.2* | Os07g0219300 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.3* | Os07g0219400 | AAACACAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.4* | Os07g0220000 | AAACACAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.5* | Os05g0328333 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.6* | Os05g0328466 | AAACGCAGCTGATCGCAAGA**AGG** | | |  | | --- | | 14.9 | | |  | | | |
|  |  | *Pro13b.7* | Os05g0328632 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.8* | Os05g0328800 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | | A screen shot of a number of text  Description automatically generated | | | |
|  |  | *Pro13b.9* | Os05g0328901 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.10* | Os05g0329001 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.11* | Os05g0329100 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.12* | Os05g0329300 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.13* | Os05g0329350 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.14* | Os05g0329400 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.15* | Os05g0329700 | AAACACAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.16* | Os05g0329200 | AAACACAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.17* | Os05g0330150 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.18* | Os05g0330600 | AAACGCAGCTGATTGCAAGA**AGG** | | 100.0 | |  | | | |
|  |  | *Pro13b.19* | Os05g0331366 | AAACGCAGCTGATTGCAATA**AGG** | | 31.5 | |  | | | |
|  |  | *Pro13b.20* | Os05g0331532 | AAATGCAGCTGATTGCAATA**AGG** | | 4.3 | |  | | | |
|  |  | *Pro13b.21* | Os05g0331800 | AAACGCAACTGATTGCAATA**AGG** | | 4.3 | |  | | | |
|  |  | *Pro13b.22* | Os05g0332000 | AAACGCAGCTGATTGCAATA**AGG** | | 31.5 | |  | | | |
| \* Red color letters indicate the non-matching nucleotide between sgRNAs and the respective gene sequences | | | | |  | |  | |